

Message Text

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ACTION EB-07

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EXCON

E.O. 11652 XGDS1

TAGS: ESTC, COCOM

SUBJECT: COCOM LIST REVIEW: I/1631 - MAGNETIC MATERIALS

REFS: A. STATE 51521

B. B. COCOM DOC REV (74) 1631/1

1. ON 10 MARCH FRENCH PROPOSAL TO DELETE SUBITEM (A) WAS OPENED BY FRENCH EXPERT WITH QUESTION AS TO WHETHER MATERIALS COVERED BY 1631 WERE ONLY THOSE CONTAINING 50 PERCENT OR MORE OF IRON. HE ALSO ASKED IF THE US USED SILICON STEEL OR NICKEL BASED ALLOYS FOR STRATEGIC USES. THE US REPLIED THAT ONLY SUBITEM (A) IS RESTRICTED TO IRON BASED ALLOYS AND THAT BOTH TYPES OF ALLOYS MENTIONED ARE USED FOR STRATEGIC PURPOSES. THE FRENCH EXPERT SAID THAT THERE WERE VERY FEW PRODUCERS, E.G. CARPENTER, ALL IN THE US. HE BELIEVED THAT THE US PREFERRED TO USE BETTER MATERIALS AS IS DONE IN OTHER COUNTRIES.

2. THE US READ FROM PARAGRAPH 1 OF REF A. REITERATING THAT THERE IS MATERIAL IN SUBITEM (A) WHICH IS APPROPRIATE FOR CONTROL. THE FRENCH EXPERT SAID HIS INFORMATION CAME FROM A CIVILIAN SOURCE NOT MILITARY. HE WOULD ACCEPT THE US STATEMENTS AS MORE RELIABLE.

3. US THEN READ FROM REF B CITING FRENCH STATEMENTS THAT
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THERE WAS NO PRODUCTION IN THIS AREA. THE US, HOWEVER,

HAD SHOWN THAT THESE MATERIALS EXISTED AND WERE BEING USED. THEY BELIEVED THE EMBARGO WAS EFFECTIVE. FRENCH EXPERT REACTED BY STATING THAT WHAT HE MEANT WAS NO PRODUCTION IN FRANCE AND DID NOT MEAN TO IMPLY THAT THE US DID NOT PRODUCE SUBJECT MATERIALS. FRANCE AND OTHER PREFER NICKEL BASED ALLOYS OVER SILICON STEELS. HE TOOK US OPPOSITION AS GIVEN IN REF A (1) AS OBJECTION, BUT MAINTAINED PROPOSAL AFTER USDEL HAD SUGGESTED WITHDRAWAL.

4. WITH RESPECT TO SUBITEM (B), THE US ASKED FOR AN INFORMAL TWG TO DISCUSS THE DIFFERENCES IN MEASURING INITIAL PERMEABILITY. FRANCE, UK, AND US MET AND EXAMINED VARIOUS REPORTS. IT WAS UNDERSTOOD THAT INITIAL PERMEABILITY IS MEASURED AFTER ANNEALING AND NOT ON FACTORY PRODUCED, ROLLED, WORK-HARDENED SHEET OR STRIP. C GRAPHIC PRESENTATIONS OF THE VALUES FOR ANNEALED MATERIAL SHOWED SUPERMUMETAL TO HAVE A MU-SUBZERO INITIAL PERMEABILITY OF ABOUT 110,000 GAUSS-OERSTEDS. CARPENTER STEEL GRAPHS WERE QUITE COMPLEX AND DIFFICULT TO READ BUT TELCON PROVIDED GOOD GRAPHIC RESULTS. THE TWG AGREED TO THE USE OF MU-SUBZERO VALUES AND REVISION OF THE PRESENT DEFINITION TO REFLECT THIS AS THE STANDARD REFERENCE FOR SETTING INITIAL PERMEABILITY VALUES. FRANCE COULD NOT MAKE A COMMITMENT ON WORDING WITHOUT CHECKING FURTHER.

5. THE COMMITTEE WAS GIVEN A BRIEF SYNOPSIS OF THE TWG EFFORTS CITING REF A (2). BOTH US AND UK ARE TO EXAMINE THE TWG INPUT WHILE AWAITING THE FRENCH COMMENTS. THE MATTER REMAINS PENDING.

6. ACTION REQUESTED: SINCE IT IS UNDERSTOOD THAT PERMEABILITY VALUES ARE DETERMINED ON ANNEALED MATERIAL, IT APPEARS THAT "CAPABILITY" FACTOR IS NOT A PROBLEM. BROCHURE INITIAL PERMEABILITY VALUES ARE GIVEN FOR MATERIAL IN THE ANNEALED CONDITION. VALUES FOR WORK HARDENED PRODUCTS WOULD BE SPURIOUS AND OF NO USE TO DESIGNERS. THERE IS BELIEF THAT 1631 COULD BE CLOSED BEFORE END OF ROUND II. THEREFORE, AUTHORIZATION IS REQUESTED TO NEGOTIATE WORDING OF DEFINITION TO READ "INITIAL PERMEABILITY, MU SUBZERO, 12X,000 GUASS-OERSTEDS (0.1489 HENRY/

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M) OR OVER." IF NEEDED, SOU OR MOU COULD BE FORMULATED TO CITE ASTM A-596 OR APPROPRIATE IEC STANDARD FOR CONFORMITY. PLEASE OBTAIN DATA FROM CARPENTER STEEL RELEVANT DATA AND FULL SCALE GRAPHS COVERING THEIR MAGNETIC MATERIALS, E.G. HYMU 800.
TURNER

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